

# Pressure sensor SDE3-...

Part number: 539679

**FESTO**



## Data sheet

Feature	Value
Approval	RCM trademark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK EX instructions To UK RoHS instructions
Explosion protection	Zone 2 (ATEX) Zone 22 (ATEX)
ATEX category gas	II 3G
Explosion ignition protection type for gas	Ex ec IIC T6 Gc X
ATEX category dust	II 3D
Explosion ignition protection type for dust	Ex tc IIIC T80°C Dc X
Explosion ambient temperature	0 °C ≤ Ta ≤ +50 °C
Note on materials	RoHS-compliant
Measured variable	1x relative pressure/1x differential pressure 2 x relative pressure Differential pressure Relative pressure
Measurement method	Piezoresistive pressure sensor with display
Start value for pressure measuring range	-0.1 MPa -1 bar -14.5 psi
End value for pressure measuring range	1 MPa 10 bar 145 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible
Media temperature	0 °C...50 °C
Ambient temperature	0 °C...50 °C
Accuracy in ± % FS	2 %FS
Switching output	2xNPN 2xPNP
Switching function	Freely programmable

Feature	Value
Switching element function	Switchable
Reproducibility of switching value	0.3 %
Max. output current	100 mA
Short circuit current rating	Pulsed
Operational voltage range DC	15 V...30 V
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable Cable with plug Plugs
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101 M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	4 ...5
Electrical connection 1, type of mounting	Screw-type lock
Cable length	0.3 m...2.5 m
Type of mounting	Front panel mounting With through-hole With H-rail Via wall/surface bracket
Mounting position	optional
Pneumatic connection	QS-4 QS-5/32
Product weight	37 g...61 g
Material housing	PA-reinforced PC
Display type	Illuminated LCD
Switching status indication	LCD yellow
Setting options	Teach-in
Protection against tampering	PIN code
Setting range threshold value	0 %...100 %
Setting range hysteresis	0 %...90 %
Degree of protection	IP65
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom class	Class 4 according to ISO 14644-1